Ontario
Ministry of
Northern Development
and Mines

René Fontaine
Minister
George Tough
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

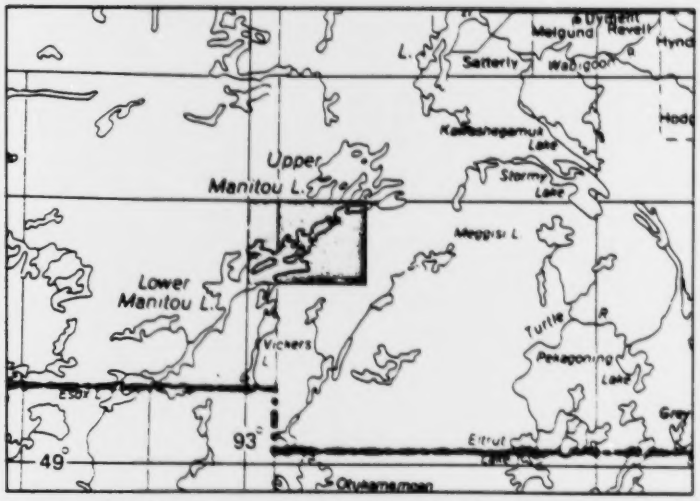
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 313

LOWER MANITOU LAKE AREA

DISTRICT OF KENORA

Compiled by the staff of
the Resident Geologist's Office
Kenora



LOCATION MAP Scale 1:1 013 760 or 1 inch to 16 miles

87-00196/

NTS Number 52F/07 SW

Mining Claim Map Number Lower Manitou Lake Area, G-2683, (M-2007)

This project is a component of the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows

Ontario Geological Survey
1986: Lower Manitou Lake Area, District of Kenora; Ontario Geological Survey, Geological Data Inventory Folio 313 compiled by the staff of the Resident Geologist's Office, Kenora, 36 pages and 2 maps.

Original Compilation by: M.R. Patterson, C.B. Ravnaas

Date	Page Revised	Revised by

Date	Page Revised	Revised by

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ACCOMPANYING MAPS

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Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	MRP DEC/85
2	Assessment Files Research Office, Toronto	NO	MRP DEC/85
3	ODM General Index; 9volumes	YES	MRP DEC/85
4	Catalogue of Airborne Geophysical Surveys (ODM)		
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	MRP DEC/85
6	ODM Industrial Mineral Reports	NO	MRP DEC/85
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	MRP DEC/85
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	MRP DEC/85
9	Newspaper Clippings File	YES	MRP DEC/85
10	GSC Index to Publications		
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	MRP DEC/85
12	OGS Index Maps	YES	MRP DEC/85
13	Source Mineral Deposit Records (O.G.S.) + MDIR'S	YES	MRP DEC/85
14	Author - Subject Articles File		
15	Miscellaneous Papers: ODM & OGS	YES	MRP DEC/85
16	ODM Geological Circulars: OGS Study Series	NO	MRP DEC/85
17	ODM Preliminary Reports: ODM Bulletins	YES	MRP DEC/85
18	ODM – OGS Open File Reports	YES	MRP DEC/85
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	MRP DEC/85
20	OGS Aggregate Resources Inventory Papers	NO	MRP DEC/85
21	OGS Mineral Potential Maps	YES	MRP DEC/85
22	Theses on file, Kenora	YES	MRP DEC/85
23	Aerial photos on file, Kenora	YES	MRP DEC/85
24	OBM Maps on file, Kenora	YES	MRP JAN/86

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . Anhydrite
- △ ank. . . . . Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . Apatite
- △ arg . . . . . Argentite
- △ As . . . . . Arsenic
- △ asp . . . . . Arsenopyrite
- △ asb . . . . . Asbestos
- △ ba. . . . . Barite
- △ be. . . . . Beryl
- △ Bi. . . . . Bismuth
- △ bn . . . . . Bornite
- △ bran . . . . . Brannerite
- △ bruc . . . . . Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb . . . . . Carbonate
- △ cel . . . . . Celestite
- △ cc. . . . . Chalcocite
- ▲ cp. . . . . Chalcopyrite
- △ ch. . . . . Chert
- △ clay . . . . . Clay
- △ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . Columbite
- △ Cu . . . . . Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . Feldspar
- ▲ fl . . . . . Fluorite (flurospar)
- △ fu. . . . . Fuchsite
- ▲ gn. . . . . Galena
- △ gt . . . . . Garnet
- △ goe . . . . . Goethite
- ▲ Au . . . . . Gold
- △ gf . . . . . Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . Ilmenite
- △ Fe . . . . . Iron
- △ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- △ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . Magnesite
- ▲ mag . . . . . Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . Marl
- △ mi . . . . . Mica
- △ ml . . . . . Millerite
- ▲ mo . . . . . Molybdenite
- △ Mo . . . . . Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . Niobium
- △ Pd . . . . . Palladium
- △ peat . . . . . Peat
- △ pent . . . . . Pentlandite
- △ Pt. . . . . Platinum
- ▲ py . . . . . Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . Pyrolusite
- △ po . . . . . Pyrrhotite
- △ q . . . . . Quartz
- △ qcv . . . . . Quartz carbonate vein
- △ ra. . . . . Radioactive minerals
- △ RE . . . . . Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . Sandstone
- △ scap . . . . . Scapolite
- ▲ shee . . . . . Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . Shale
- △ sid . . . . . Siderite
- △ si . . . . . Silica
- △ Ag . . . . . Silver
- △ sl . . . . . Slate
- △ sm . . . . . Smaltite
- △ sod . . . . . Sodalite
- △ spec . . . . . Specularite
- ▲ sp. . . . . Sphalerite
- △ spd . . . . . Spodumene
- △ staur . . . . . Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . Stone
- △ talc. . . . . Talc
- △ Te . . . . . Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . Thorite
- △ Th . . . . . Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . Tourmaline
- △ trap . . . . . Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . Uranium
- △ verm . . . . . Vermiculite
- △ Y . . . . . Yttrium
- △ Zn . . . . . Zinc
- △ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Mineral Deposit Inventory Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	AL 211, AL 212	Au			OBM Vol 7 p. 123 reports rich ore from the 2 patent claims. Shafts of unknown depth.
B	Beehive Prospect	Au, py, cp	K0132	MDC 16, p.8	Shaft on main vein to 135 ft. by 1898. Grab samples from shaft to 80.4 oz/ton Au. Sampling of NE trending shear zone and quartz vein in 1943 gave .54 oz/ton Au over 15.5 ft., (uncut), including 9.5 ft. of sheared greenstone.
C	Dryden-Red Lake Syndicate Occurrence	Au, py, shee	K0149	MDC 16, p. 14 MRC 13, p. 240	NNE striking shear zone of chlorite schist and quartz veins averaging 10 - 12 ft. in width, traced for 300 ft. Values of .03 oz/ton Au over 8 ft. and .45 oz/ton Au over 4 ft.
D	Gaffney Prospect (Manitou Island Prospect)	Au, py, cp mag	K0297	MDC 16, p. 26 MRC 13, p. 240	1904, 1905: 37.5 ft. shaft. Two zones of discontinous, lensoid mineralization reported to be 900 ft. X 17 ft. @ .2 oz/ton Au and 300 ft. X 23 ft. @ .25 oz/ton Au in 1937. Drilling reported to date of 10,310.5 ft. in 49 holes.

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Mineral Deposit Inventory Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
E	Glass Reef Mine	Au, py	K0379	MDC 16, p. 18	1899-1900: Vertical 7 ft. X 14 ft. shaft sunk to 200 ft., 1031 ft. of lateral development on the 74 ft. and 176 ft. levels plus stoping and raising. Production valued at $171.00 in 1900.
F	King Edward Occurrence	Au, py, cp, gn, sp		MDC 16, p. 23	1903: Stripping and trenching on quartz veins and shear zones on mining location HW 171. Veins to 5 or 6 ft. and schistose zones of 10 ft. or more in width.
G	Merrill Occurrence (Swede Boy's Location)	Au, py, cp	K0245	MDC 16, p. 39 MRC 13, p. 240	1895-1932: Trenching and test pitting on 3 veins and small "placer" location. Grab samples to 4.64 oz/ton Au and chip sample of 0.16 oz/ton Au over 3 ft.
H	Olsen Bay Occurrence	mo, fl	K0370		Disseminated molybdenite and associated flourite in quartz veins, quartzose pegmatite veins and the host porphyritic quartz monzonite, granodiorite.

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Mineral Deposit Inventory Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
I	Orion Occurrence	Au			1900: 6ft. X 10ft. shaft inclined 60° - 70° SE sunk to 50 ft. on NE striking zone of quartz stringers and schist.
J	Queen Alexandra Mine	Au, py	K0298	MDC 16, p. 34 MRC 13, p. 240	1904: 6 X 10 ft. vertical shaft sunk to 85 ft. on a quartz vein. Milled 18 tons ore at 0.94 oz/ton Au.
K	Reliance Prospect (Independence Mine) (Westerfield Mine)	Au, py, po, cp, sp	K0299	MDC 16, p. 34 MRC 13, p. 240	6 shafts. #2 shaft to 97 ft., drifting 75 ft. N and 75 ft. S on 80 ft. level. #3 shaft to 85 ft. with crosscut. NNE striking shear zone with chlorite schist, and fractured quartz.
L	Royal Sovereign Mine (Lower Neepawa)	Au, py	K0300	MDC 16, p. 35 MRC 13, p. 167-168	1902: 2 shafts; 105 ft. inclined shaft with 121 ft. of drifting on the 65 ft. and 100 ft. levels. Vein also accessed by adit. Second shaft to 80 ft. Milled 23 tons and recovered $122.00 worth of gold.
M	Twentieth Century Mine	Au, py, cp	K0296	MDC 16, p. 41 MRC 13, p. 168-169	By 1903 2 shafts. Main shaft inclined 83° S; Sunk to 389 ft. with 470 ft. of drifting and 440 ft. crosscutting on the 80 ft., 160 ft., 240 ft. and 320 ft. levels.

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Mineral Deposit Inventory Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
					Second shaft, located 50 ft. east of main shaft, sunk vertically 40 ft. Milled 8,688 tons, valued at $43,586.00.
N	Watson Occurrence (Beck Lake)	Au, py	K0295	MDC 16, p. 43 MRC 13, p. 241	High grade pocket of native gold found within 5 ft. wide NE striking quartz vein in schist.
O	West Manitou Island Occurrence	Au, py			Two quartz veins striking N 65° E traced for 260 ft. and 400 ft. Widths vary from 4 ft. to a few inches. Grab sample assayed 0.01 oz/ton Au. Thomson, 1934 p. 31.
P	Wetelainen Occurrence (Beck Lake)	Au	K0295	MDC 16, p. 43 MRC 13, p. 241	Quartz veins in massive andesite assay 0.12 oz/ton Au. Quartz vein in schist assays 0.04 oz/ton Au over 6 ft. Exact location of veins uncertain.

GDIF FORM NO. 1

Lower Manitou Lake Area

TYPE OF WORK

EXPLORATION DATA
filed at the
RESIDENT GEOLOGIST'S OFFICE
KENORA

Numbers below represent the year in which the work was done; e.g., 68 for 1968

	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1.	Aur Resources Inc. 52F/7 SW; V-1 AFRO file: 2.4829											82	82							
2.	Beehive Gold Mines 52F/7 SW; A-1					00														
3.	Canadian Nickel Co. Ltd. 52F/7 SW; B-1				71															
4.	Cochrane Oil and Gas Ltd. 52F/7 SW; X-1				84															
5.	Cochrane Oil and Gas Ltd. 52F/7 SW; X-2 AFRO file: 2.6542, 2.7835	83/ 84	83/ 84			83/ 84						83/ 84	1 83/ 84							
6.	Cochrane Oil and Gas Ltd. 52F/7 SW; X-3				84															
7.	Daering Exploration Corp. 52F/7 SW; C-1 AFRO file: 63.2130								67											
8.	Freeport Canadian Exploration Co. 52F/7 SW; D-1									70										

Note 1 - VLF survey performed but no interpretation available.

GDIF FORM NO. 7

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
9.	Gaffney Mines Ltd. 52F/7 SW; E-1, E-2	34/43		34/43	34/44	34/43/44														
10.	Jalna Resources Ltd. 52F/2 NW; D-1											84	84		84		84			
11.	Jalna Resources Ltd. 52F/7 SW; Z-2 AFRO file: 2.8276								85[2]	85[2]										
12.	Kerr Addison Mines Ltd. 52F/7 SW; H-1				67	67							67							
13.	Kerr Addison Mines Ltd. 52F/7 SW; H-2												68							
14.	Kerr Addison Mines Ltd. 52F/7 SW; H-3				68	68							68							
15.	Kerr Addison Mines Ltd. 52F/7 SW; H-4				68	68							67/68							
16.	Kerr Addison Mines Ltd. 52F/7 SW; H-5				68	68							67/68							

Note 2 - Plotting discrepancy exists between East and West sheets.

GOIF FORM NO.

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
17.	St. Joe Canada Inc. 52F/7 SW; U-1				82															
18.	St. Joe Canada Inc. 52F/7 SW; U-2				83	83														
19.	St. Joe Canada Inc. 52F/7 SW; U-4 AFRO file: 2.7833	83																		
20.	St. Joe Canada Inc. 52F/7 SW; U-5 AFRO file: 2.8188	82/ 83	82/ 83																	
21.	St. Joe Canada Inc. 52F/7 SW; U-6 AFRO file: 2.7682					82/ 83														
22.	St. Joe Canada Inc. 52F/7 SW; U-7 AFRO file: 2.8153		82/ 83			82/ 83														
23.	St. Joe Canada Inc. 52F/7 SW; U-8											83	83[3]							
24.	Teck Corporation 52F/7 SW; Y-1				84															

Note 3 - MAXMIN II Survey performed but no interpretation available.

GDIF FORM NO. .

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																				
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
25.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-1				84																
26.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-2				84																
27.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-3 AFRO file: 2.7256											84	84								
28.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-4 AFRO file: 2.7259											84	84								
29.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-5 AFRO file: 2.7285											84	84								
30.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-6 AFRO file: 2.7230											84	84								
31.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-7 AFRO file: 2.7227											84	84								
32.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-8 AFRO file: 2.7290																				

GDIF FORM NO. 7

Lower Manitou Lake Area

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
33.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-9 AFRO file: 2.7258											84	84							
34.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-10 AFRO file: 2.7287											84	84							
35.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-11 AFRO file: 2.7229											84	84							
36.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-12 AFRO file: 2.7226											84	84							
37.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-13 AFRO file: 2.7294											84	84							
38.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-14 AFRO file: 2.7295											84	84							
39.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-15 AFRO file: 2.7410											84	84							
40.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-16 AFRO file: 2.7228																			

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
41.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-17 AFRO file: 2.7288											84	84							
42.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-18 AFRO file: 2.7233											84	84							
43.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-19 AFRO file: 2.7292											84	84							
44.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-20 AFRO file: 2.7283											84	84							
45.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-21 AFRO file: 2.8034											84	84							
46.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-22				84	84														
47.	Wright, R.J. (Teck Expl. Ltd.) 52F/7 SW; W-23				84	84														

GDIF FORM NO. 7

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
1. a	Angus, D.H.	1	Jan./34	332°	-45°	5.0	256.0	py, mag	Au
b	Angus, D.H.	2	Jan./34	327°	-45°	6.0	294.0	py, mag	
c	Angus, D.H.	3	Jan./34	321°	-45°	6.0	240.0	py, mag	
d	Angus, D.H.	4	Jan./34	342°	-45°	9.0	276.0	py, mag	Au
e	Angus, D.H.	5	Jan./34	310°	-45°	4.0	224.0		Au
f	Angus, D.H.	6	Feb./34	314°	-45°	5.0	216.0	mag	Au
2.	Canadian Nickel Co. Ltd.	48512	Mar./71	360°	-60°	120.0	522.0	py, cp	
3.	Canadian Nickel Co. Ltd.	48513	Oct./71	322°	-55°	140.0	186.0	py, po	
4.	Canadian Nickel Co. Ltd.	48514	Dec./71	321°	-55°	106.0	515.0	py, po	
5.	Cochrane Oil and Gas	QA-84-1	Jan./84	140°	-45°	13.0	161.0	py	
6.	Cochrane Oil and Gas	QA-84-2	Feb./84	140°	-45°	9.0	150.0	py	
7.	Cochrane Oil and Gas	GR-84-1	Feb./84	320°	-45°	22.5	501.0	py	
8.	Cochrane Oil and Gas	GR-84-2	Feb./84	330°	-45°	92.0	317.0	py, mag	
9.	Cochrane Oil and Gas	BB-84-1	Mar./84	150°	-45°	7.5	108.0	py, gf	
10.	Cochrane Oil and Gas	CL-84-1	Feb./84	330°	-45°	26.0	150.0	py	
11.	Cochrane Oil and Gas	CL-84-2	Feb./84	150°	-45°	28.5	150.5	py	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
12. a	Gaffney Mines Ltd.[1]	1	1936/37	350°	-45°		176.5		Au
b	Gaffney Mines Ltd.[1]	2	1936/37	050°	-60°		186.0		Au
c	Gaffney Mines Ltd.[1]	3	1936/37	287°	-60°		388.0		Au
d	Gaffney Mines Ltd.[1]	4	1936/37	353°	-45°		220.0		Au
e	Gaffney Mines Ltd.[1]	5	1936/37	349°	-45°		215.0		Au
f	Gaffney Mines Ltd.[1]	6	1936/37	350°	-60°		214.0		Au
g	Gaffney Mines Ltd.[1]	7	1936/37	349°	-60°		176.0		Au
h	Gaffney Mines Ltd.[1]	8	1936/37	343°	-55°		190.0		Au
i	Gaffney Mines Ltd.[1]	9	1936/37		-60°		115.0		Au
j	Gaffney Mines Ltd.[1]	10	1936/37		-45°		177.0		Au
k	Gaffney Mines Ltd.[1]	11	1936/37		-45°		169.0		Au
l	Gaffney Mines Ltd.[1]	12	1936/37		-60°		108.0		Au
m	Gaffney Mines Ltd.[1]	13	1936/37	344°	-60°		186.0		Au
n	Gaffney Mines Ltd.[1]	14	1936/37	345°	-60°		256.0		Au
13.	Kerr Addison Mines Ltd.	E-1	Feb./68	310°	-45°	10.0	78.8	po, py, gf	
14.	Kerr Addison Mines Ltd.	E-2	Feb./68	310°	-45°	10.0	184.0	py, po, gf	
15.	Kerr Addison Mines Ltd.	E-3	Feb./68	310°	-45°	51.0	171.0	py, po, cp	Au, Ag

Note 1 - Conflicting reports as to exact drill hole depths and locations.

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
16.	Kerr Addison Mines Ltd.	C-1	Mar./68	320°	-45°	75.0	200.0	py, po, gf	
17.	Kerr Addison Mines Ltd.	C-2	Apr./68	310°	-45°	96.0	221.0	py, po, gf	Au, Ag, Cu, Zn, Ni
18.	Kerr Addison Mines Ltd.	F-1	Oct./67	330°	-45°	19.5	119.0	py, po	Au, Ag, Cu, Ni
19.	Kerr Addison Mines Ltd.	B-7	Mar./68	315°	-45°	7.0	151.0	py, po, cp	
20.	Kerr Addison Mines Ltd.	B-8	Mar./68	315°	-45°	18.5	150.0	py, po	Au, Ag, Ni, Cu
21.	St. Joe Canada Inc.	R82-01	Nov./82	280°	-45°	6.0	341.0	py, po, cp asp	
22.	St. Joe Canada Inc.	R82-02	Nov./82	282°	-45°	4.0	211.0	py, po, sp, cp	
23.	St. Joe Canada Inc.	R84-01	Oct./83	278°	-45°	6.6	295.0	py, po, cp	Au, Ag, Cu
24.	St. Joe Canada Inc.	R84-02	Oct./83	280°	-44°	6.6	607.0	po, py, sp, cp	Au, Ag, Cu, Zn
25.	St. Joe Canada Inc.	R84-03	Nov./83	278°	-58°	6.6	403.0	py, po, cp	Au, Ag, Cu, Zn
26.	St. Joe Canada Inc.	R84-04	Nov./83	277°	-60°	6.6	423.0	py, po, cp	
27.	St. Joe Canada Inc.	R84-05	Nov./83	280°	-60°	13.1	354.0	py, po, cp	
28.	St. Joe Canada Inc.	R84-06	Nov./83	278°	-45°	10.0	295.0	py, po, cp	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
29.	St. Joe Canada Inc.	R84-07	Nov./83	278°	-45°	10.0	325.0	py, po, cp	
30.	St. Joe Canada Inc.	R84-08	Nov./83	280°	-45°	16.4	558.0	py, po, cp	
31.	St. Joe Canada Inc.	R84-09	Nov./83	278°	-60°	6.6	394.0	py, po	
32.	St. Joe Canada Inc.	R84-10	Nov./83	278°	-55°	7.8	305.0	py, po, cp, sp	
33.	St. Joe Canada Inc.	R84-11	Nov./83	280°	-50°	3.6	187.0	py, cp, mar	
34. a	Sylvanite Gold Mines Ltd.	1	Jan./44	002°	-45°	4.0	139.0		Au
b	Sylvanite Gold Mines Ltd.	2	Jan./44	355°	-45°	3.0	162.0		Au
c	Sylvanite Gold Mines Ltd.	3	Jan./44	343°	-45°	2.0	110.0		Au
d	Sylvanite Gold Mines Ltd.	4	Feb./44	345°	-45°	3.0	161.0		Au
e	Sylvanite Gold Mines Ltd.	5	Feb./44	341°	-45°	3.0	98.0		Au
f	Sylvanite Gold Mines Ltd.	6	Feb./44	325°	-45°	3.0	117.0		Au
g	Sylvanite Gold Mines Ltd.	7	Feb./44	325°	-45°	3.0	52.0		Au
h	Sylvanite Gold Mines Ltd.	8	Feb./44	330°	-45°	3.0	102.0		Au
i	Sylvanite Gold Mines Ltd.	9	Feb./44	326°	-45°	3.0	91.0		Au
j	Sylvanite Gold Mines Ltd.	10	Feb./44	322°	-45°	7.0	59.0		Au
k	Sylvanite Gold Mines Ltd.	11	Feb./44	315°	-45°	4.0	70.0		Au
l	Sylvanite Gold Mines Ltd.	12	Feb./44	310°	-45°	4.0	72.0		Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
34. m	Sylvanite Gold Mines Ltd.	13	Feb./44	343°	-45°	7.0	93.0		Au
n	Sylvanite Gold Mines Ltd.	14	Feb./44	354°	-45°	3.0	105.0		Au
o	Sylvanite Gold Mines Ltd.	15	Feb./44	349°	-45°	8.0	131.0		Au
p	Sylvanite Gold Mines Ltd.	16	Feb./44	326°	-45°	5.0	93.0		Au
q	Sylvanite Gold Mines Ltd.	17	Mar./44	350°	-57°	38.0	235.0		Au
r	Sylvanite Gold Mines Ltd.	18	Feb./45	349°	-60°	61.0	256.0		Au
s	Sylvanite Gold Mines Ltd.	19	Feb./45	349°	-60°	63.0	332.0		Au
t	Sylvanite Gold Mines Ltd.	20	Feb./45	349°	-60°	55.0	307.0		Au
u	Sylvanite Gold Mines Ltd.	21	Feb./45	349°	-60°	57.0	315.0		Au
35. a	Wright, R.J.(Teck Expl Ltd.)	TN-15	Feb./84	327°	-60°	56.0	237.0	py, mag	Au
b	Wright, R.J.(Teck Expl Ltd.)	TN-16	Feb./84	327°	-60°	72.0	347.0	py, mag	
c	Wright, R.J.(Teck Expl Ltd.)	TN-17	Feb./84	327°	-60°	50.0	250.0	py, mag	Au
d	Wright, R.J.(Teck Expl Ltd.)	TN-18	Feb./84	327°	-60°	68.0	387.0	py, mag, cp	
e	Wright, R.J.(Teck Expl Ltd.)	TN-19	Feb./84	327°	-60°	46.0	287.0	mag, hem, py	Au
f	Wright, R.J.(Teck Expl Ltd.)	TN-20	Feb./84	327°	-60°	80.0	407.0	py, mag	
g	Wright, R.J.(Teck Expl Ltd.)	TN-21	Feb./84	327°	-60°	26.0	216.0	py, mag	
h	Wright, R.J.(Teck Expl Ltd.)	TN-25	Mar./84	337°	-70°	71.0	797.0	py, mag, fu, cp	

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude (feet)	Flight Line Direction	Flight Line Spacing (feet)
7.	Dominion Exploration Syndicate Daering Explorers Corporation Ltd. 52F/7 SW; C-1	Magnetic	500	N/S	660
8.	Quester Surveys Ltd. Freeport Canadian Expl. Co. 52F/7 SW; D-1	Electromagnetic	400	NW/SE	880
11.	Geotech Ltd. Jalna Resources Ltd. 52F/7 SW; Z-2	Electromagnetic, Magnetic, VLF	220	NW/SE	660

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1.	Humus	Au, Hg, As, Sb, Ag	Cochrane Oil and Gas Ltd (Queen Alexandra Mine Grid)	Assessment File: 52F/7 SW; X-2
2.	Humus	Au, Hg, As, Sb, Ag	Cochrane Oil and Gas Ltd (Glass Reef Grid)	Assessment File: 52F/7 SW; X-2
3.	Lithogeochemical	Au, As	St. Joe Canada Inc. (Reliance Claims)	Assessment File: 52F/7 SW; U-5
4.	Humus	Au, As	St. Joe Canada Inc. (Reliance Claims)	Assessment File: 52F/7 SW; U-7

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

No age dating on file as of Dec 17, 1985.

GCIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kenora

Cochrane Oil and Gas Limited

Jalna Resources Limited

Noxe Petroleum Corporation

Teck Exploration Limited

GDIF FORM NO.

ODM GENERAL INDEX SEARCH

Words searched: AL 211, 212, Beck Lake Occurrence, Beehive Prospect, Dryden-Red Lake Syndicate Occurrence, Gaffney Prospect, Glass Reef Mine, Independence Mine, King Edward Occurrence, Lower Neepawa Mine, Manitou Island, Manitou Lake, Merrill Occurrence, Olsen Bay Occurrence, Orion Occurrence, Queen Alexandra Mine, Reliance Prospect, Royal Sovereign Mine, Swede Boy's Location, Twentieth Century Mine, Watson Occurrence, Westerfield Mine, Wetelainen Occurrence.

Index Volume	Listing:	Report Volume	Part	Page
I	Beehive Gold Mine,			
	Manitou Island, Manitou Lake.	7		77
	Independence Gold Mine, Manitou Lake.			
	Work at (1898),	8		75, 76
	(1901),	11		250
	(1903),	13	1	66, 67
	King Edward Gold Mine, Manitou Lake.			
	Idle (1904),	14	1	51
	Notes (1903),	13	1	69, 70
	Manitou Lake Area, Kenora.			
	Mining Notes (1896),	6		84
	(1897),	7		75 - 77
	(1899),	9		62
	(1900),	10		99
	(1901),	11		248
	Orion Gold Mining Co., Southwest of Charlton (Carleton) Lake, Manitou Lake Region.			
	Vein, character; Work at,	9		62
	Queen Alexandra Gold Mine, Near Manitou Lake.			
	Work at (1905),	14	1	51
	Reliance Gold Mine.			
	Notes,	10		40
	Reliance Gold Mining and Milling Co., operating Independence Mine.	13	1	66

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
I	Royal Sovereign Gold Mine,			
	Anzhekumming (Manitou) Lake.			
	Notes,	7		122
	Notes,	11		247,248
	Notes,	12		92
	Photo,	11		272-273
	Twentieth Century Gold Mine, Manitou Lake Region.			
	Capital and Date of Charter,	11		11
	Mining Class at (1903),	13	1	4, 52
	Photo,	11		256,257
	Photo,	13	1	48, 49
	Producing (1902),	12		15
	Producing (1903),	13	1	4
	Work at (1901),	11		248-250
	Work at (1902),	12		92
	Work at (1903),	13	1	67
	Work at (1904),	14	1	42, 51
II	Glass Reef Gold Mine, Manitou Lake.			
	Location, Map showing,	30	2	42
	Producing,	30	2	49
	Reliance Gold Mine, W. of Anzhekumming Lake.			
	Operation (1922)	32	6	19
	Operation (1924)	34	6	1
	Reliance Gold Mining and Milling Co.	32	6	19
	Twentieth Century Gold Mine, Manitou Lake Area.			
	Depth,	30	2	12
	Mill Removed,	30	2	47
III	Beehive Gold Mine, Manitou Island.			
	Mineralization,	42	4	30
	Sketch Map,	42	4	29

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
III	Dryden-Red Lake Prospecting Partnership Gold Claims,			
	Manitou Lake Area.	42	4	30
	Gaffney Gold Claims, Manitou Island.			
	Mineralization,	42	4	29
	Mining Developments (1933),	43	4	28
	Glass Reef Gold Mine, Lower Manitou Lake.			
	Geology,	42	4	25
	Production,	49	1	22
	Merrill Gold Claims.			
	Report and Sketch Map,	42	4	35, 36
	Olsen Bay, Lower Manitou Lake.			
	Gneissic Rocks,	43	4	6, 7
	Analysis and Photos,	42	4	7, 8
	Queen Alexandra Gold Mine, Carleton Lake.			
	Mineralization,	42	4	27
	Reliance Gold Mine, South of Upper Manitou Lake.			
	Report and Sketch Map,	42	4	33 - 35
	Royal Sovereign Gold Mine, Lower Manitou Lake.			
	Production,	49	1	22
	Report on,	42	4	26
	Twentieth Century Gold Mine, Manitou Lake Area.			
	Production,	49	1	22

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
III	Watson Gold Claim, Manitou Lake Area.			
	Mineralization,	42	4	36
	Wetelainen Gold Claims, Manitou Lake Area.			
	Mineralization,	42	4	36
IV	Glass Reef Gold Mine, Lower Manitou Lake.			
	Production,	59	1	20
	Royal Sovereign Gold Mine, Lower Manitou Lake.			
	Production,	59	1	20
	Twentieth Century Gold Mine, Manitou Lake Area.			
	Production,	59	1	20
V	Glass Reef Gold Mine, Lower Manitou Lake.			
	Production,	64	1	22
	Royal Sovereign Gold Mine, Lower Manitou Lake.			
	Production,	64	1	23
	Twentieth Century Gold Mine, Manitou Lake Area.			
	Production,	64	1	23
VII	Glass Reef Prospect, Lower Manitou Lake Area.	MRC 13		166,167
	Manitou Island, Lower Manitou Lake Area.	MP 53		58
	Royal Sovereign Prospect, Lower Manitou Lake Area	MRC 13		167,168
	Twentieth Century Mine, Upper Manitou Lake Area.	MDC 13		168,169

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
IX	Beck Lake, Lower Manitou Lake Area.	GR 142		8,15,50
	Beehive Prospect, Lower Manitou Lake Area.	GR 142 MDC 16		60 8
	Dryden-Red Lake Occurrence, Lower Manitou Lake Area.	MDC 16		14
	Dryden-Red Lake Prospecting Partnership, Lower Manitou Lake Area. Report on Property,	GR 142		70, 71
	Gaffney Prospect, Lower Manitou Lake Area. Report on Property,	GR 142		60,61, 63,73
	Glass Reef Mine, Lower Manitou Lake Area. Report on Property,	GR 142 MDC 16		65,66, 71 18
	King Edward Occurrence, Upper-Lower Manitou Lake Area.	MDC 16		23
	Lower Manitou Lake Area. Molybdenite, Placer Gold,	MP 70 MDC 17		246,247 172
	Manitou Island, Lower Manitou Lake Area.	GR 142		12,15, 38
	Manitou Island Prospect, Lower Manitou Lake Area.	MDC 16		26

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
IX	Manitou Island Syn., Lower Manitou Lake Area.	GR 142		60
	Manitou Lake, Uphill Lake Area.	MP 89		5, 7
	Merrill, Charles Estate, Lower Manitou Lake Area.			
	Report on Royal Sovereign Mine,	GR 142		66
	Report on Swede Boy Location,	GR 142		66, 67
	Olsen Bay, Lower Manitou Lake Area.	GR 142		15, 17, 40, 52, 73, 74
	Orion Occurrence, Upper-Lower Manitou Lake Area.	MDC 16		32
	Queen Alexandra Mine, Lower Manitou Lake Area.			
	Report on Property,	GR 142		69
		MDC 16		34
	Reliance Prospect, Lower Manitou Lake Area.			
	Report on Property,	GR 142		69
		MDC 16		34
	Royal Sovereign Mine, Lower Manitou Lake Area.			
	Report on Property,	MDC 16		35
	Twentieth Century Mine, Lower Manitou Lake Area.			
	Report on Property,	GR 142		64
		MDC 16		41
	Watson Occurrence, Lower Manitou Lake Area.	GR 142		70
		MDC 16		43
	Wetelainen Occurrence, Lower Manitou Lake Area.			
	Report on Property,	GR 142		67, 70
		MDC 16		43

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL COMPILATION MAPS		
Beard, R.C., Garrett, G.L.	1976	Gold Deposits of the Kenora-Fort Frances Area, Districts of Kenora and Rainy River. Accompanied by Chart A.	MDC 16	1" to 4 miles (1:253 440)
Blackburn, C.E.	1981	Kenora - Fort Frances, Kenora and Rainy River Districts. Geological Compilation Series.	OGS Map 2443	1" to 4 miles (1:253 440)
Davies, J.C.	1964	Manitou Lakes Sheet, Districts of Kenora and Rainy River. Geological Compilation Series.	ODM Map P. 242	1" to 2 miles (1:126 720)
Gordon, J.B.	1977	Gold Deposits of Ontario, West Central Sheet, Districts of Kenora (Patricia Portion), Thunder Bay, Algoma and Cochrane. Mineral Deposits Series.	OGS Map P. 1227	1" to 16 miles (1:1 013 760)
McInnes, W.	1902	Manitou Lake Sheet, District of Rainy River, Province of Ontario.	GSC Map No. 720	1" to 4 miles (1:253 440)
		GEOPHYSICAL MAPS		
GEO-ANALYSIS (1981) Ltd.	1981	The Identification of Structural Linears From Landsat Imagery In Northwestern Ontario. Energy, Mines and Resources Canada, Earth Physics Branch, Seismological Service of Canada.	OF 82 - 13	9 Images at 1:250 000 5 Maps at 1:1 000 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
O.D.M. - G.S.C.	1961	Upper Manitou Lake, Sheet 52F/7. Aeromagnetic Series.	Geophysics Paper 1153	1" to 1 mile (1:63 360)
O.G.S.	1980	Airborne Electromagnetic and Total Intensity Magnetic Survey. Manitou-Stormy Lakes Area, District of Kenora. Geophysical/Geochemical Series.	Maps 80470, 80471 80477, 80478	1:20 000
O.G.S. - G.S.C.	1977	Airborne Gamma-Ray Spectrometry Survey, Dryden Sheet Districts of Kenora and Rainy River. Geophysical Series.	Prelim. Maps P. 1460 to P. 1466	1" to 4 miles (2:253 440)
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Roed, M.A.	1980	Gold Rock Area,Districts of Kenora and Rainy River Northern Ontario Engineering Geology Terrain Study. Accompanied by Map 5061.	NOEGTS 38	1:100 000
Zoltai, S.C.	1965	Surficial Geology, Kenora - Rainy River. Ont. Dept. of Lands and Forests.	MAP S165	1" to 8 miles (1:506 880)
		MINERAL POTENTIAL MAPS		
Springer, J.S., Robertson, J.A., Vos, M.A.	1982	Mineral Potential Map of Ontario, West Central Sheet NTS 41 NW, 42 W, 43 SW, 52, 53 SE.	OFR 5326	1" to 16 miles (1:1 013 760)
Springer, J.S.	1978	Dryden Sheet, Districts of Kenora and Rainy River. Mineral Deposits Series.	OGS Map P. 1530	1:250 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Blackburn, C.E.	1972	Lower Manitou-Uphill Lakes Area, District of Kenora. Summary of Field Work 1972, edited by V.G. Milne and D.F. Hewitt.	ODM MP 53	p. 54 - 59
Blackburn, C.E.	1973	Lower Manitou-Uphill Lakes Area, District of Kenora. Geological Series.	ODM Map P. 816	1" to ¼ mile (1:15 840)
Blackburn, C.E.	1976	Geology of the Lower Manitou-Uphill Lakes Area, District of Kenora. Accompanied by Map 2320.	ODM GR 142	1" to ½ mile (1:31 680)
Blackburn, C.E.	1982	Geology of the Manitou Lakes Area, District of Kenora, (Stratigraphy and Petrochemistry). Accompanied by Map 2476.	ODM Report 223	1:50 000
Blackburn, C.E., Janes, D.A.	1983	Gold Deposits in Northwestern Ontario, in The Geology of Gold in Ontario, edited by A.C. Colvine.	OGS MP 110	p. 194 - 210
Bow, James, A.	1900	Mines of Northwestern Ontario; Ontario Dept. of Mines, Annual Report for 1900.	ODM Vol. 9	p. 35 - 88
Carter, W.E.H.	1902	The Mines of Ontario; Ontario Dept. of Mines, Annual Report for 1901.	ODM Vol. 11	p. 231 - 309
Coleman, A.P.	1895	Second Report on the Gold Fields of Western Ontario. Accompanied by Map 5a.	OBM Vol. 5	1" to 2 miles (1:126 720)
Goodwin, A.M.	1965	Preliminary Report on Volcanism and Mineralization in the Lake of the Woods - Manitou Lake - Wabigoon Region of Northwestern Ontario.	ODM PR 1965-2	1" to 4 miles (1:253 440)

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Mackasey, W.O., Blackburn, C.E., Trowell, N.F.	1974	A Regional Approach to the Wabigoon-Quetico Belts and its Bearing on Exploration in Northwestern Ontario.	ODM MP 58	29 pages
Ont. Dept. of Lands, Forests and Mines	1907	Map of part of the District of Rainy River, exhibiting the country in the vicinity of Wabigoon, Dryden, the Manitou Gold Fields and along the Lake Superior Branch of the Grand Trunk Pacific Railway.		1" to 2 miles (1:126 720)
Thomson, Jas, E.	1934	Geology of the Manitou-Stormy Lakes Area; Ontario Dept. of Mines, Annual Report for 1933. Accompanied by Map 42c.	ODM Vol. 42 Part 4	1" to 1 mile (1:63 360)
		THESES		
Birk, W. Dieter	1978	The Nature and Timing of Granitoid Plutonism in the Wabigoon Volcanic-Plutonic Belt, Northwestern Ontario; Ph.D. Thesis, McMaster University.		p. 116 - 125
Casey, John	1976	A Petrographic Study of the Sunshine Lake Volcanics of Northwestern Ontario; B.Sc. Thesis, Saint Francis Xavier University.		16 pages
Coker, William Bernard	1974	Lake Sediment Geochemistry in the Superior Province of the Canadian Shield; Ph.D. Thesis, Queen's University.		296 pages
Foland, Sara, S.	1982	Geochemistry, Geochronology and Origin of an Archean Greenstone-Granite Terrain, Wabigoon Subprovince, Northwestern Ontario; M.Sc. Thesis, University of Montana.		166 pages

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Longstaffe, Frederick John	1977	The Oxygen Isotope and Elemental Geochemistry of Archean Rocks from Northern Ontario; Ph.D. Thesis, McMaster University.		443 pages
Teal, Phillip Rae	1979	Stratigraphy, Sedimentology, Volcanology and Development of the Archean Manitou Group, Northwestern Ontario; Ph.D. Thesis, McMaster University.		291 pages
Teal, Suzanne E.	1974	Petrography and Provenance of an Archean Conglomerate, Manitou Lake, Northwestern Ontario; B.Sc. Thesis, McMaster University.		70 pages
Wallace, Peter Ian	1975	Strain Analysis: Upper Manitou Lake, Northwestern Ontario; M.Sc. Thesis, McMaster University.		126 pages

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO.6

NOTES AND ADDENDA

AERIAL PHOTOGRAPH INDEX

Scale 1" to ½ mile. (OGS)

1982

Roll	Line	Photo Numbers
20	4911	150 - 164
38	4912	18 - 31
38	4913	135 - 148
37	4914	140 - 152
37	4915	21 - 34

1976

Roll	Line	Photo Numbers
20	4910	136 - 150
20	4911	52 - 66
5	4912	215 - 228
5	4913	133 - 148
5	4914	51 - 65
31	4915	173 - 188

Note: 1965 Photography on file in Resident Geologist's Office, Kenora.

Scale 1" to 1 mile. (EMR)

1952

A13560	148 - 151 *
A13561	60 - 63 *

* Photographs on file in Resident Geologist's Office, Kenora.

ONTARIO BASE MAP SERIES

Scale 1:20 000

20 13 5000 54600 +
20 13 5000 54500
20 13 5100 54600 +
20 13 5100 54500

+ Published Maps Currently Available.

GDIF FORM NO.10

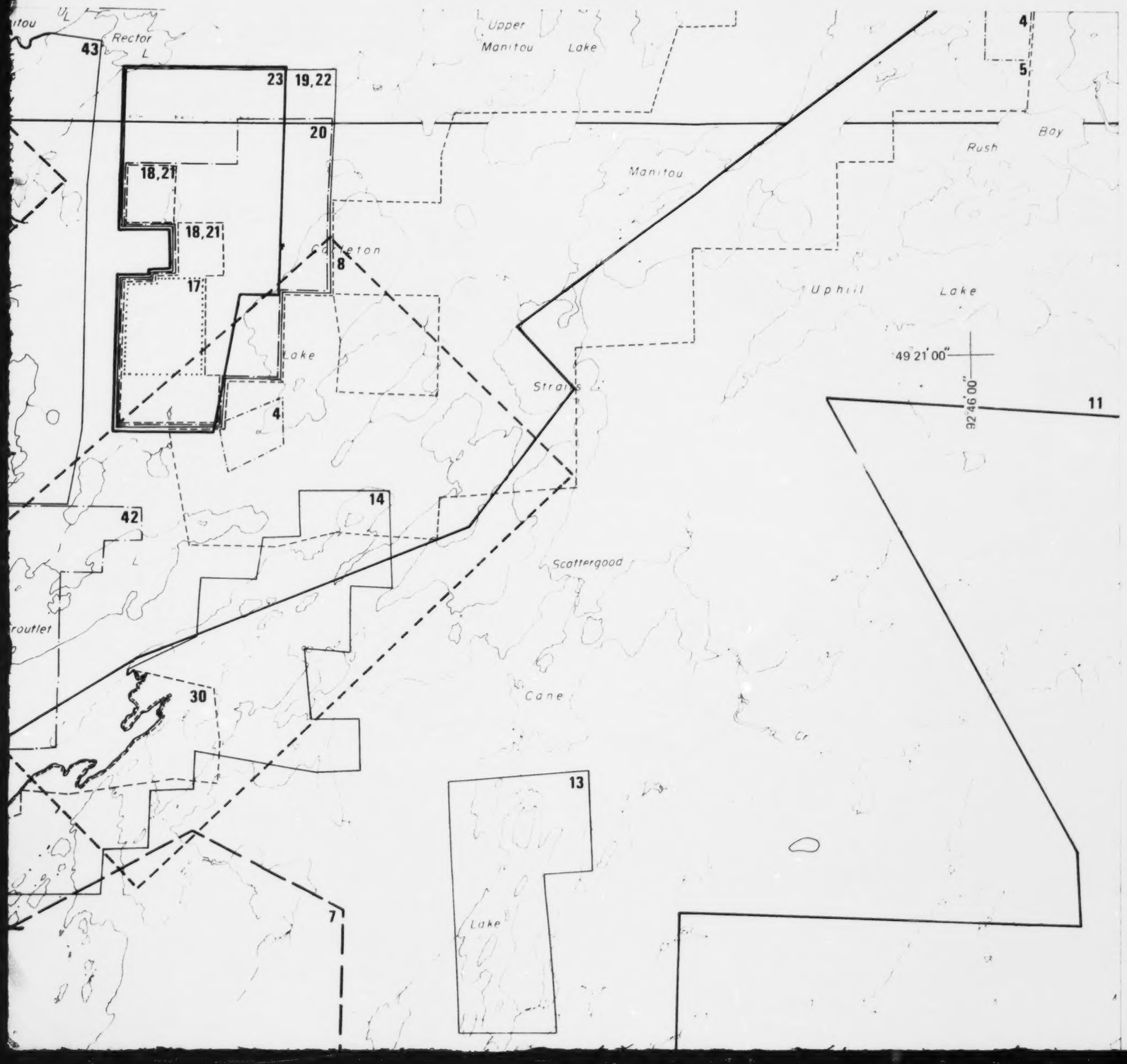
NOTES AND ADDENDA

MINERAL DEPOSITS FILE

Note: A deposits file is maintained at the Kenora Resident Geologist's Office, which contains the published data on the following mineral deposits:

1. AL 211 and AL 212
2. Beehive Mine
3. Dryden-Red Lake Occurrence
4. Gaffney Claims
5. Glass Reef Mine
6. H.W. 595
7. King Edward Occurrence
8. Olsen Bay Occurrence
9. Orion Mine
10. Queen Alexandra Mine
11. Reliance Mine
12. Royal Sovereign Mine
13. Swede Boy's (Merrill) Claims
14. Twentieth Century Mine
15. Watson Occurrence
16. West Manitou Island Occurrence
17. Wetelainen Occurrence

Pothole
Osipasinni
L
L
Little
Merrill
L
Merrill
L
15
8
41
Manitou
Upper
43
29
Rector
L
Upper
Manitou
23
19,22
20
18,21
18,21
17
8
Caribou
Lake
4
34
44
Early
38
32
14
42
Doyle
Trautlet
30
Kaminni
Lake
Doyle
35
30
Bay
37
Blanchard
28
Bay
Olsen
Bay
Blanchard
L
45
7
Lake



Ministry of Northern Development and Mines

Ontario

René Fontaine
Minister

George Tough
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 313

(Map 1 of 2)

LOWER MANITOU LAKE AREA

DISTRICT OF KENORA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

Kaminni

Lake

Olsen

Bay

Blanchard

Bay

Blanchard

L

Doyle

Bay

Lake

Sandpiper

Pt

49°17'00"

92°59'00"

Islands

Manitou

25, 26, 46, 47

Lake 7

Bay

Meridian

Weasel

R

Holcroft

L

Lower

Beaverfoot

Knowles

Lake

Porto

L

Bay

30

35

30

37

28

45

40

33

39

16

31

2

8

11

36

5

27

9

1

6

4

12

3

24

3

4

10

30

13

7

40

16

Cone

Lake

Glass

Bay

Etta

Lake

Ponto

Lake

Mack

EXPLORATION DATA FILE AREAS

■ 1 6 — Reference number is always inside work area outlined. See listing in text pages.

□ x 4 — Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- Airborne electromagnetic anomaly Location of anomaly along flight line
- Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horzontal loop; VLF - Very low freq; Turam; JEM - Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly
- Airborne VLF Electromagnetic Anomaly

NOTE: All ground Electromagnetic Anomalies are VLF Anomalies unless specified otherwise.

Manitou
Upper
Rector
L
Upper
Manitou
Lake
3,4
1
Merrill
Little
Merrill
L
Au
py, cp
G
G
Au, py, cp
33
32
25
24
K
Au
py, po, cp, sp
Au
J
py
Lake
Au
I
50
30
31
10
11
Au
F
py, cp, gn, sp
Au
A
49 21' 00"
92 46' 00"
Early
Doyle
Au
py, sho
C
Doyle
Trout
Lake
Bay
Blanchard
Bay
Blanchard

Ministry of Northern Development and Mines

Ontario

Rene Fontaine
Minister

George Tough
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 313

(Map 2 of 2)

LOWER MANITOU LAKE AREA

DISTRICT OF KENORA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

■ IP — Induced polarization anomaly

□ SP — Self potential anomaly

□ AFMAG — Audio-frequency magnetic anomaly (total intensity)

■ R — Resistivity anomaly

□ GR — Gravity anomaly

■ Airborne VLF Electromagnetic Anomaly

NOTE: All ground Electromagnetic Anomalies are VLF Anomalies unless specified otherwise.

MISCELLANEOUS DATA

■ Trenching, p.t

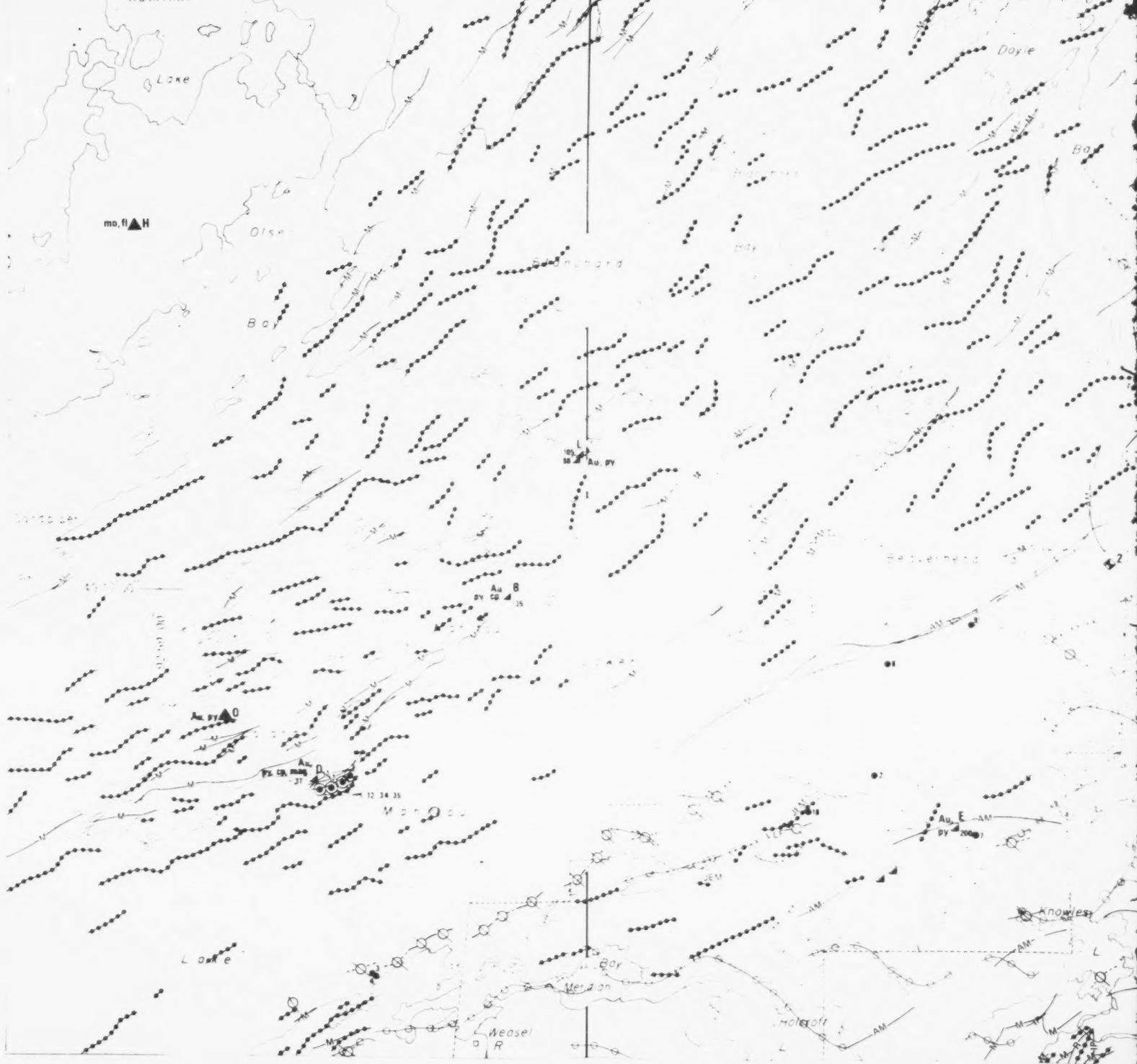
■ Adit

□ Open p.t

□ Rock quarry

□ Sand and/or gravel p.t

► NOTE


Doyle
Olse
Bay
Edmonds
Au, py
Au, py
Au, py

Doyle

Edmonds

Au, PY

Au PY CP 135

Au PY

Au△P

Au PY▲N

Au△P

Au E PY

AM

Knowles

Ponto

Lake

Bay

Meridian

Weasel R

Holecroft

JEM

M

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp ▲ A — Mineral occurrence with mineral symbol and commodity code
- Au ◢ A 54 — Mineral occurrence with mineral symbol, commodity code and deposit number
- Ag △ A — Mineral occurrence with mineral symbol, commodity code and property letter
- cp ▬ A — Mineral occurrence with mineral symbol and commodity code
- Cu ◢ C 78 — Mineral occurrence with mineral symbol, commodity code and deposit number

DRILLHOLE

- ● — Location of drillhole, hole number and elevation
- ◉ — Location of drillhole, hole number and elevation; mineralized zone intersected
- ⊙ — Drillhole, hole number and elevation; no mineralized zone intersected
- ◯ — Property with drillhole location, hole number and elevation; mineralized zone intersected
- ◯ — Property with drillholes which have not been shown on map
- ⊕ — Reverse circulation drillhole, hole number and elevation